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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/819,291	03/28/2001	Kiyoshi Ozaki	1508.65377	6868

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EXAMINER

NGUYEN, HOAN C

ART UNIT	PAPER NUMBER
2871	

DATE MAILED: 11/28/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

<b>Office Action Summary</b>	<b>Application No.</b> 09/819,291	<b>Applicant(s)</b> OZAKI ET AL.	
	<b>Examiner</b> HOAN C. NGUYEN	<b>Art Unit</b> 2871	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 19 July 2006.
- 2a) ☒ This action is **FINAL**.                      2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1-5 and 39-42 is/are pending in the application.
- 4a) Of the above claim(s) 1-5 and 39 is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 40-42 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All    b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- |   |   |
|---|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892)                    | 4) <input type="checkbox"/> Interview Summary (PTO-413)           |
| 2) <input type="checkbox"/> Notice of Draftperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____                                      |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)         | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date _____   | 6) <input type="checkbox"/> Other: _____                          |

## DETAILED ACTION

The final action mailed on 04/17/2006 is withdrawn.

### ***Response to Amendment***

Applicant's arguments with respect to the amended claim 40 based on the Supplemental Amendment D filed on 07/19/2006 have been considered but are moot in view of the new ground(s) of rejection. Therefore, this is Final action.

In remark, applicants fail to point out the unrelated example and Figure illustrating the features of the amended claim 40 and claim 42; therefore, Drawing Objection is as follows:

### ***Drawings***

The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the features of

- “forming a first disconnection repairing contact hole and a second disconnection repairing contact hole so as to reach a surface of the transparent glass substrate on either opposing side of the disconnected wiring, and exposed at least an upper surface of the disconnected wiring within the disconnection repairing contact hole and forming a (one) fourth conductive film by layer CVD method to fill the disconnection repairing contact holes with the fourth conductive film” in claim 40;

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- “the first and second disconnection repairing contact holes are connected to each other through the pixel electrode by the fourth conductive film (one conductive film)” in claim 42;

must be shown or the feature(s) canceled from the claim(s). No new matter should be entered.

Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as “amended.” If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either “Replacement Sheet” or “New Sheet” pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

### ***Claim Rejections - 35 USC § 112***

The following is a quotation of the first paragraph of 35 U.S.C. 112:

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The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claims 40-42 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention.

The amended claim 40 cited the features “forming a first disconnection repairing contact hole and a second disconnection repairing contact hole so as to reach a surface of the transparent glass substrate on either opposing side of the disconnected wiring, exposed at least an upper surface of the disconnected wiring within the disconnection repairing contact hole and forming a (one) fourth conductive film by layer CVD method to fill the disconnection repairing contact holes with the fourth conductive film”, which does not disclose in the disclosure.

In the specification, Figs. 21-22 (Example 4) show the first and second disconnection repairing contact holes 273/275 are connected to each other through the pixel electrode by two (not one) conducting films 277 and 279. Fig. 22 shows most the features of the amended claim 40, but Fig. 21 does not show “forming a (one) fourth conductive film by layer CVD method to fill the disconnection repairing contact holes with the fourth conductive film”. Fig. 21 shows forming two conductive films 273/275 to fill the disconnection repairing contact holes with the two conductive films.

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However, Fig. 22 shows ONLY partial region (not including the disconnected wiring) of the repairing contact holes reaching a surface of the transparent glass substrate, since if the repairing contact holes reach a surface of the transparent glass substrate, then the repairing contact holes are formed all the way to substrate and cannot expose an upper surface of the disconnected wiring.

Figs. 31-33 (Example 10) shows “forming a (one) fourth conductive film by layer CVD method to fill the disconnection repairing contact holes with the fourth conductive film” but the contact holes do not expose at least an upper surface of the disconnected wiring.

To clarify this matter, applicants need to point out the example and Figure showing all features in claims 40-42. Each example is illustrated different and unrelated process, so that applicants cannot mix the features of more than one unrelated examples into the claims to generate the new subject matter. For example, claim 40 is mixed the features in Figs. 21-22 and Figs. 31-33 together; therefore, claim 40 possibly is mixed of the unrelated Examples 4 and 10 together and generated the new subject matter.

Claim 42 recites the feature of “the first and second disconnection repairing contact holes are connected to each other through the pixel electrode by the fourth conductive film (one conductive film)” that is not disclosed in the original specification.

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Figs. 16-17 show the first and second disconnection repairing contact holes 203/205 are connected to each other through the pixel electrode 113 by two (not one) conducting films 209 and 211.

Figs. 18-19 shows the first and second disconnection repairing contact holes 233/235 are connected to each other by one conducting films 231, but not through the pixel electrode 113 and contact holes are not reached a surface of the transparent glass substrate.

Therefore, the features in claims 40 and 42 consider as new subject matter. Claim 41 is rejected since it depends on the infinitive claim.

### ***Conclusion***

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within **TWO MONTHS** of the mailing date of this final action and the advisory action is not mailed until after the end of the **THREE-MONTH** shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will

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the statutory period for reply expire later than SIX MONTHS from the date of this final action.


Any inquiry concerning this communication or earlier communications from the examiner should be directed to HOAN C. NGUYEN whose telephone number is (571) 272-2296. The examiner can normally be reached on MONDAY-THURSDAY:8:00AM-4:30PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Nelms can be reached on (571) 272-1787. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

HOAN C. NGUYEN  
Examiner  
Art Unit 2871

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ANDREW SCHECHTER  
PRIMARY EXAMINER